

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
23 October 2003 (23.10.2003)

PCT

(10) International Publication Number  
WO 2003/088241 A3

(51) International Patent Classification<sup>7</sup>: G11B 20/00, 20/12, 27/30

(21) International Application Number: PCT/IB2003/001256

(22) International Filing Date: 1 April 2003 (01.04.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 02076527.7 18 April 2002 (18.04.2002) EP

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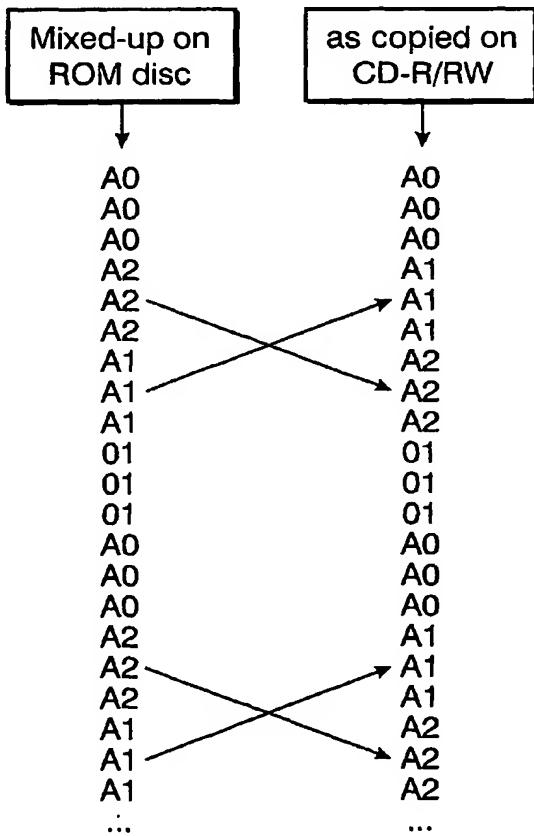
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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

(54) Title: METHOD OF COPY DETECTION AND PROTECTION USING NON-STANDARD TOC ENTRIES



(57) Abstract: The invention relates to a method of copy detection of a record carrier. In one particular embodiment the table of content entries are mastered on the record carrier in a detectable non-standard way, e.g. the sequence of table of content entries is mixed or the number of repetitions is varied. According to another embodiment additional synchronization symbols are used in one or more subcode frames which can be detected by a read-out device in order to distinguish between an original or a copy of a record carrier.



SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:  
12 August 2004

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/01256

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 G11B20/00 G11B20/12 G11B27/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/41138 A (GOOCH RICHARD MICHAEL ;RECORDING INDUSTRY TRADING COM (GB)) 7 June 2001 (2001-06-07) page 4, line 17 - page 5, line 2 ----- PATENT ABSTRACTS OF JAPAN vol. 016, no. 056 (P-1310), 12 February 1992 (1992-02-12) & JP 03 254470 A (FUJITSU LTD), 13 November 1991 (1991-11-13) abstract ----- -/-	1,4,12, 14,17, 19,21,23
X		1,4,17, 21,23

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the International search	Date of mailing of the International search report
9 December 2003	28.05.2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Ogor, M

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/01256

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 03/049107 A (HAHN YEHUDA ;TTR TECHNOLOGIES LTD (IL)) 12 June 2003 (2003-06-12) page 2, line 31 - page 3, line 4 page 3, line 12 - line 16 page 8 - page 9 page 10, line 13 - page 11, line 11 page 15, line 25 - page 16, line 3 page 18, line 2 - line 28 -----	1,3,4, 12,17, 19,21,23
E	WO 03/079349 A (CERBERUS CENTRAL LTD;FARIA RICHARD) 25 September 2003 (2003-09-25) page 6, line 30 - page 7, line 1 page 9, line 30 - page 10, line 17 page 20, line 20 - page 22, line 13 -----	1,4,17, 21,23
A	"Data interchange on read-only 120 mm optical data disks (CD-ROM), second edition" STANDARD ECMA, XX, XX, no. ECMA-130, June 1996 (1996-06), XP002143627 -----	

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IB 03/01256

### Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-4, 12-15, 17, 19, 21, 23

#### Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-4 12-15 17 19 21 23

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2. claims: 5-11 16 18 20 22

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 03/01256

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0141138	A 07-06-2001	GB 2357165 A		13-06-2001
		WO 0141138 A2		07-06-2001
		US 2003086566 A1		08-05-2003
JP 03254470	A 13-11-1991	NONE		
WO 03049107	A 12-06-2003	WO 03049107 A2		12-06-2003
		US 2003133386 A1		17-07-2003
WO 03079349	A 25-09-2003	WO 03079349 A2		25-09-2003